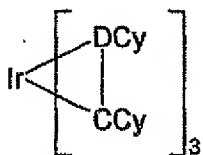


AMENDMENTS TO THE CLAIMS

1. (Previously presented) A process for preparing homoleptic Ir(III) complexes of the formula (I)

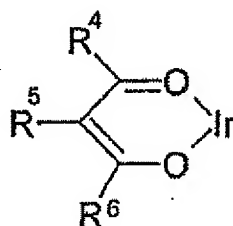


formula (I)

in which:

- CyD is a cyclic group which contains at least one donor atom via which the cyclic group is bonded to the metal and which may in turn bear one or more substituents R; the CyD and CyC groups are joined together via a covalent bond;
- CyC is a cyclic group which contains a carbon atom via which the cyclic group is bonded to the metal and which may in turn bear one or more substituents R;
- R is the same or different at each instance and is H, F, Cl, Br, I, NO₂, CN, a straight-chain or branched or cyclic alkyl or alkoxy group having from 1 to 20 carbon atoms, in which one or more nonadjacent CH₂ groups may be replaced by -O-, -S-, -NR¹-, -CONR²-, -CO-O-, -CR¹=CR¹- or -C≡C-, and in which one or more hydrogen atoms may be replaced by F, or an aryl or heteroaryl group which has from 4 to 14 carbon atoms and may be substituted by one or more nonaromatic R radicals; where a plurality of substituents R, both on the same ring and on the two different rings, together may in turn form a further mono- or polycyclic, aliphatic or aromatic ring system;
- R¹ and R² are the same or different at each instance and are H or an aliphatic or aromatic hydrocarbon radical having from 1 to 20 carbon atoms,

characterized by the reaction of an iridium(III)-containing reactant which contains at least one diketonate structural unit of the formula (II)



formula (II)

in which:

R⁴, R⁶ are the same or different at each instance and are a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH₂ groups may be replaced by -O-, -S-, -NR¹-, -CONR²-, -CO-O-, -CR¹=CR¹- or -C≡C-, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms or an alkoxy group OR¹,

R⁵ is the same or different at each instance and is a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH₂ groups may be replaced by -O-, -S-, -NR¹-, -CONR²-, -CO-O-, -CR¹=CR¹- or -C≡C-, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms,

R¹ and R² are the same or different at each instance and are H or an aliphatic or aromatic hydrocarbon radical having from 1 to 20 carbon atoms,

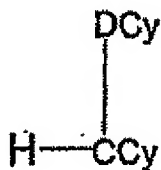
excluding homoleptic diketonate complexes of the formula (II) and compounds of the formula (II) which contain two ligands of the formula (III)



formula (III)

where the symbols CyC and CyD in formula (III) are each as defined under formula (I),

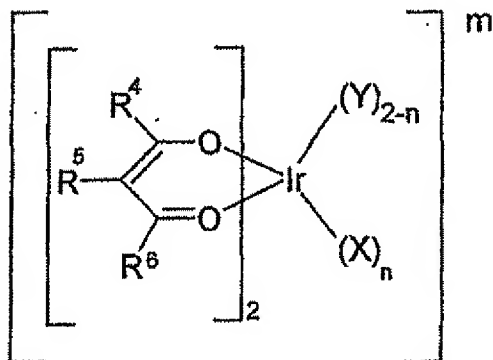
with a compound of the formula (IV)



formula (IV)

in which the symbols CyD and CyC are each as defined under formula (I).

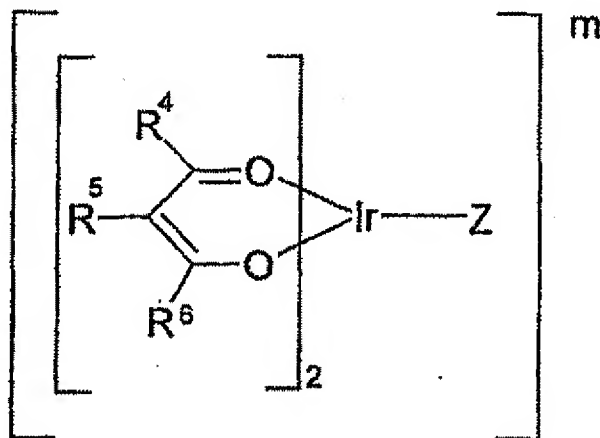
2. (Original) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (V)



formula (V)

where the symbols R^4 , R^5 and R^6 are each as defined in claim 1,

- X is the same or different at each instance and is a monovalent anion,
- Y is the same or different at each instance and is an uncharged monodentate ligand,
- n is 0, 1 or 2 and
- m is 1- when n = 2, is 0 when n = 1 or is 1+ when n = 0.
3. (Original) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (VI)

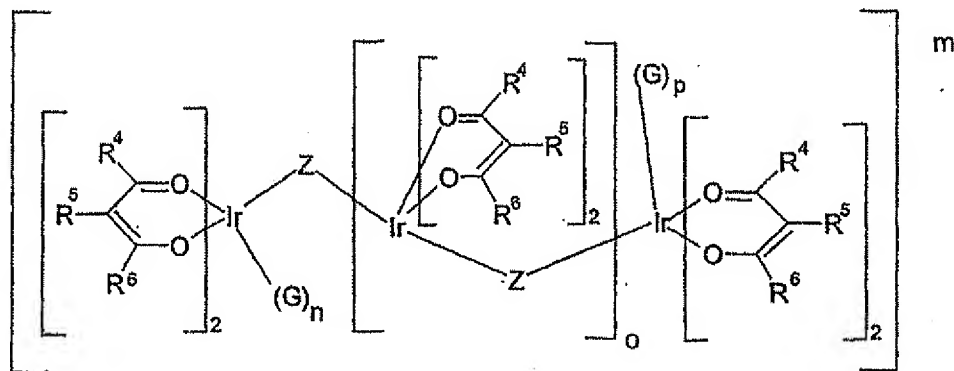


formula (VI)

where R⁴, R⁵ and R⁶ are each as defined in claim 1 and where

- Z is the same or different at each instance and is
- and uncharged bidentate and/or bridging ligand Z⁰,
- a monoanionic bidentate and/or bridging ligand Z¹
- or a dianionic bidentate and/or bridging ligand Z², and
- m is 1+ when Z = Z⁰, is 0 when Z = Z¹ and is 1- when Z = Z².

4. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (VII)



formula (VII)

where R⁴, R⁵ and R⁶ are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y,

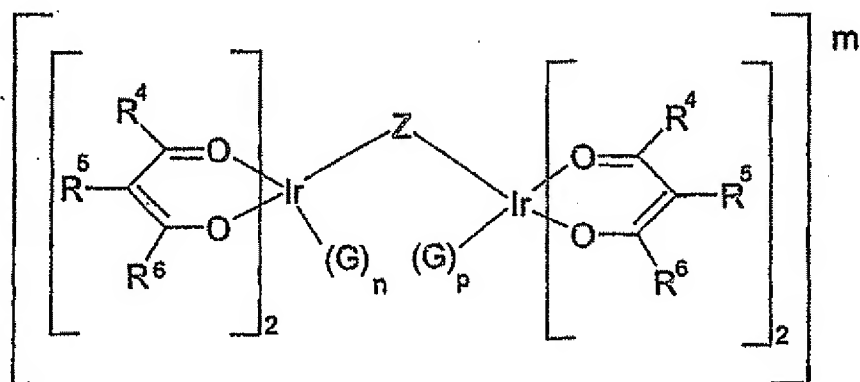
Z is the same or different at each instance and is
 and uncharged bidentate and/or bridging ligand Z⁰,
 a monoanionic bidentate and/or bridging ligand Z¹
 or a dianionic bidentate and/or bridging ligand Z²,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

m may be from (o+2)+ to (o+2)-.

5. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (VIII)



formula (VIII)

where the symbols and indices R⁴, R⁵ and R⁶ are each as defined in claim 1, and in which

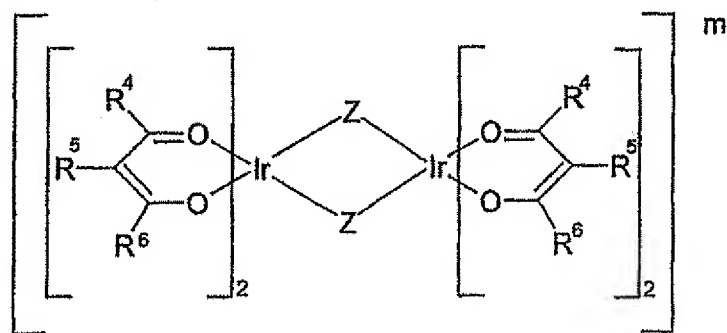
G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y,

Z is the same or different at each instance and is
 and uncharged bidentate and/or bridging ligand Z⁰,
 a monoanionic bidentate and/or bridging ligand Z¹
 or a dianionic bidentate and/or bridging ligand Z²,

n and p are the same or different at each instance and are 0 or 1, and

m is 2+, 1+, 0, 1- or 2-.

6. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (IX)



formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 and R^6 are each as defined in claim 1 and in which

Z is the same or different at each instance and is

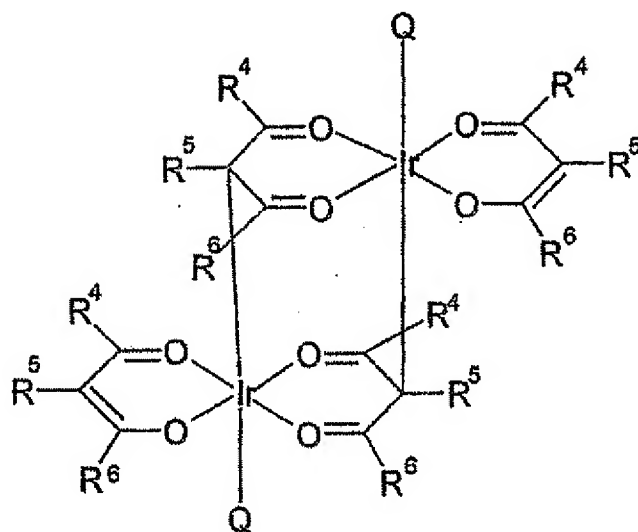
and uncharged bidentate and/or bridging ligand Z^0 ,

a monoanionic bidentate and/or bridging ligand Z^1

or a dianionic bidentate and/or bridging ligand Z^2 and

m is 2+, 1+, 0, 1- or 2-.

7. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a structure of the formula (X)

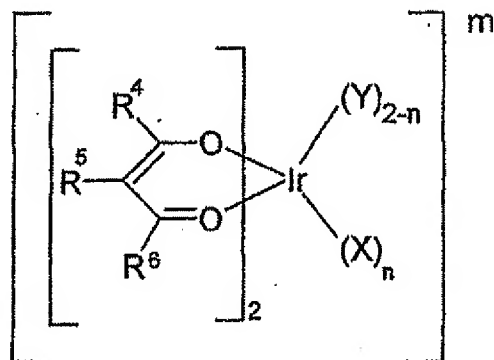


formula (X)

where the symbols R^4 , R^5 and R^6 are each as defined in claim 1 and where

Q is the same or different at each instance and is a monovalent anion.

8. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a compound of the formula (V), (VII) and/or (VIII)



formula (V)

wherein

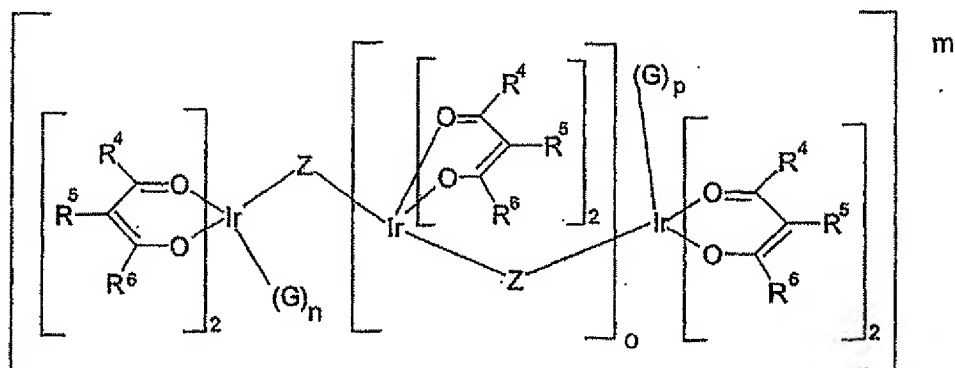
R^4 and R^6 are the same or different at each instance and are a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by $-O-$, $-S-$, $-NR^1-$, $-CONR^2-$, $-CO-O-$, $-CR^1=CR^1-$ or $-C\equiv C-$, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms or an alkoxy group OR^1 ,

R^5 is the same or different at each instance and is a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by $-O-$, $-S-$, $-NR^1-$, $-CONR^2-$, $-CO-O-$, $-CR^1=CR^1-$ or $-C\equiv C-$, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms,

Y is the same or different at each instance and is an uncharged monodentate ligand,

n is 0, 1 or 2 and

m is 1- when $n = 2$, is 0 when $n = 1$ or is 1+ when $n = 0$,



formula (VII)

where R^4 , R^5 and R^6 are each as defined above,

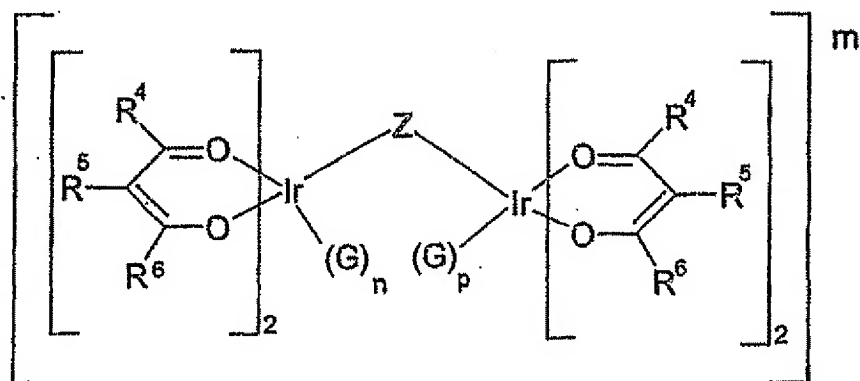
G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y,

Z is the same or different at each instance and is
 and uncharged bidentate and/or bridging ligand Z^0 ,
 a monoanionic bidentate and/or bridging ligand Z^1
 or a dianionic bidentate and/or bridging ligand Z^2 ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

m may be from $(o+2)^+$ to $(o+2)^-$,



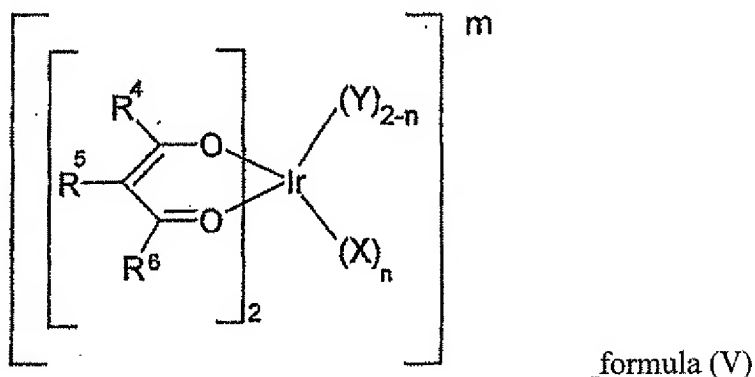
formula (VIII)

where the symbols and indices R^4 , R^5 , R^6 , G, Z, n and p are each as defined above and in which

m is 2+, 1+, 0, 1- or 2-

and X is the same or different at each instance and is OH⁻, F⁻, Cl⁻, Br⁻, I⁻, SCN⁻, CN⁻, SH⁻, SeH⁻, an alkoxide of the formula R¹O⁻, nitrate, a carboxylate of the formula R¹COO⁻, cyclopentadienide (C₅H₅⁻) or hydride (H⁻).

9. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a compound of the formula (V), (VII) and/or (VIII)



wherein

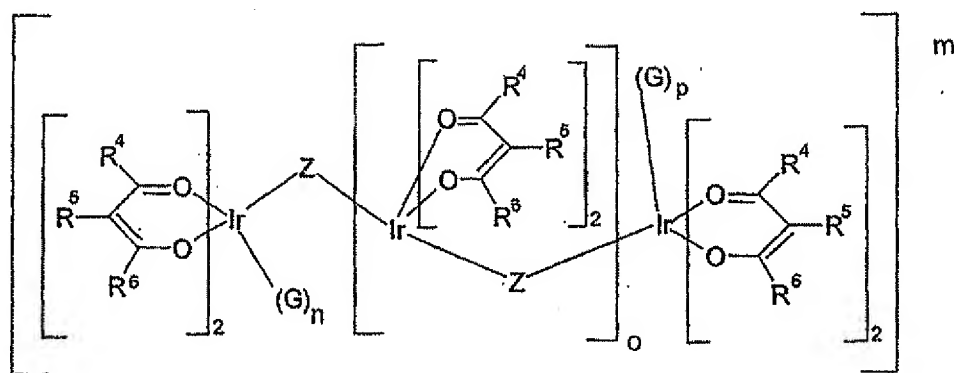
R⁴ and R⁶ are the same or different at each instance and are a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH₂ groups may be replaced by -O-, -S-, -NR¹-, -CONR²-, -CO-O-, -CR¹=CR¹- or -C≡C-, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms or an alkoxy group OR¹,

R⁵ is the same or different at each instance and is a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH₂ groups

may be replaced by -O-, -S-, -NR¹-, -CONR²-, -CO-O-, -CR¹=CR¹- or -C≡C-, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms,

n is 0, 1 or 2 and

m is 1- when n = 2, is 0 when n = 1 or is 1+ when n = 0



formula (VII)

where R⁴, R⁵ and R⁶ are each as defined above,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y,

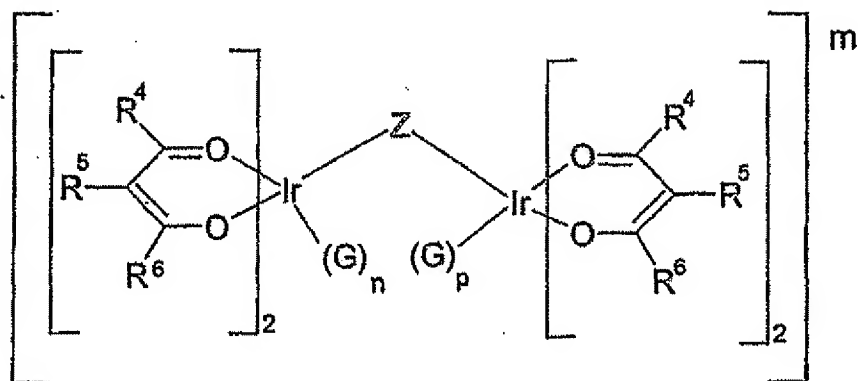
Z is the same or different at each instance and is
 and uncharged bidentate and/or bridging ligand Z⁰,
 a monoanionic bidentate and/or bridging ligand Z¹

or a dianionic bidentate and/or bridging ligand Z^2 ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

m may be from $(o+2)^+$ to $(o+2)^-$,



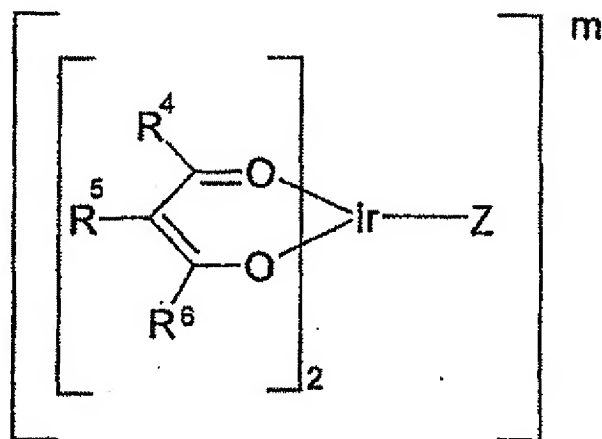
formula (VIII)

where the symbols and indices R^4 , R^5 , R^6 , G, Z, n and p are each as defined above and in which

m is 2+, 1+, 0, 1- or 2-,

and Y is the same or different at each instance and is H_2O , H_2S , a dialkyl sulfide of the formula $(R^1)_2S$, a thiol of the formula R^1SH , an alcohol of the formula R^1OH , an ether of the formula $(R^1)_2O$, a dialkyl sulfoxide $(R^1)_2SO$, NH_3 , a primary, secondary or tertiary amine, pyridine, quinoline, a nitrile of the formula R^1CN , CO, a phosphine of the formula $P(R^1)_3$, a phosphine oxide of the formula $OP(R^1)_3$, an arsine of the formula $As(R^1)_3$ or a phosphite of the formula $P(OR^1)_3$.

10. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant is a compound of the formula (VI), (VII), (VIII) and/or (IX)



formula (VI)

where R⁴, R⁵ and R⁶ are each as defined in claim 1 and where

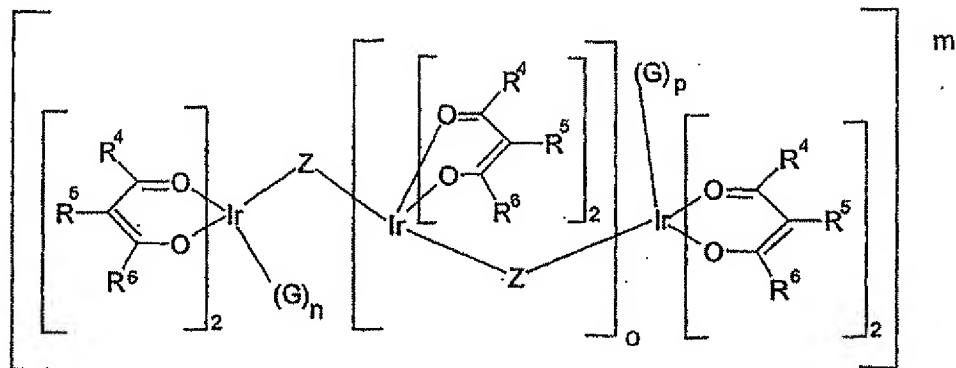
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z⁰,

a monoanionic bidentate and/or bridging ligand Z¹

or a dianionic bidentate and/or bridging ligand Z², and

m is 1+ when Z = Z⁰, is 0 when Z = Z¹ and is 1- when Z = Z²,



formula (VII)

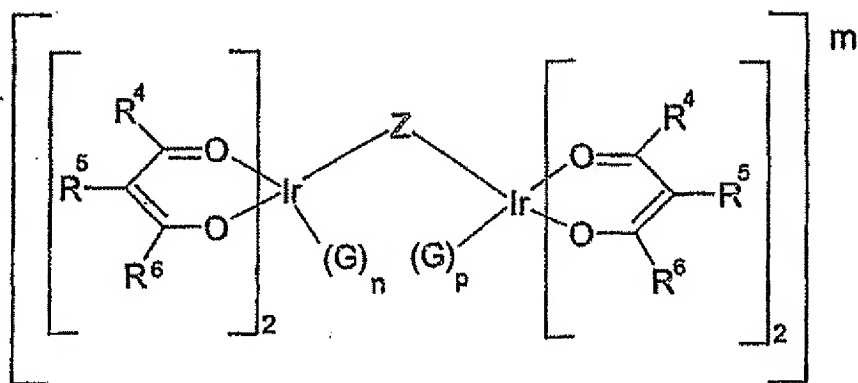
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

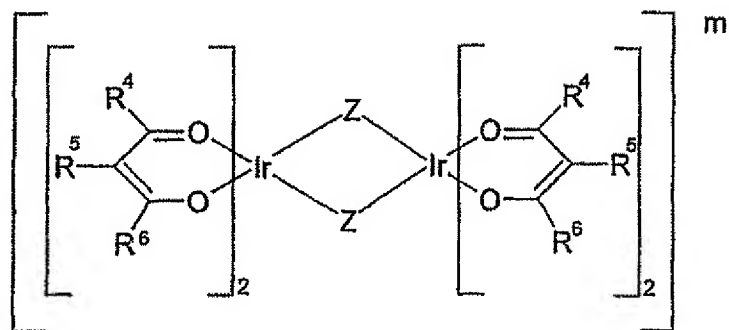
m may be from $(o+2)^+$ to $(o+2)^-$



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G , Z , n and p are each as defined above,

m is 2+, 1+, 0, 1- or 2-



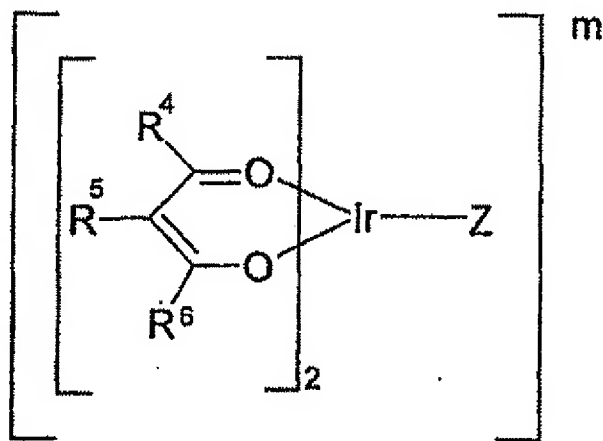
formula (IX)

where the symbols R¹, R², R⁴, R⁵, R⁶ and Z are each as defined in claim 1 and in which

m is 2+, 1+, 0, 1- or 2-

and Z⁰ is the same or different at each instance and is bipyridine, phenanthroline, ethylenediamine, propylenediamine, or 2-, 3- or 4-aminopyridine.

11. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant is a compound of the formula (VI), (VII), (VIII) and/or (IX) and



formula (VI)

where R^4 , R^5 and R^6 are each as defined in claim 1 and where

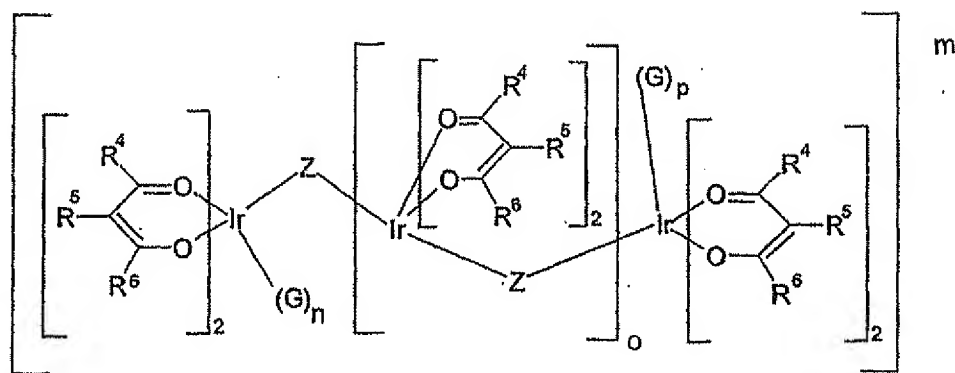
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z^0 ,

a monoanionic bidentate and/or bridging ligand Z^1

or a dianionic bidentate and/or bridging ligand Z^2 , and

m is 1+ when $Z = Z^0$, is 0 when $Z = Z^1$ and is 1- when $Z = Z^2$,



formula (VII)

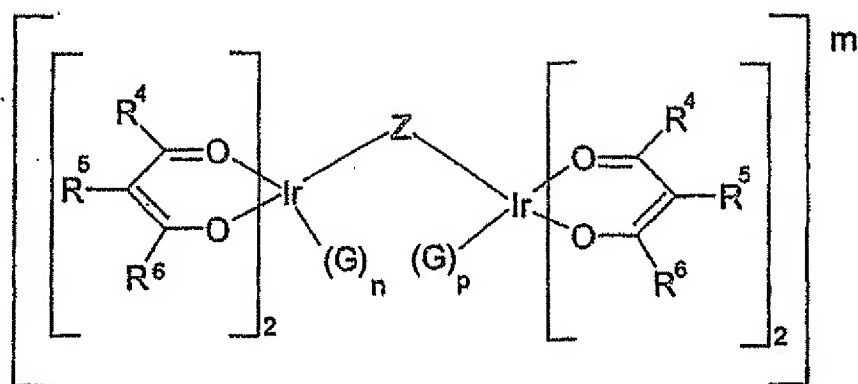
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

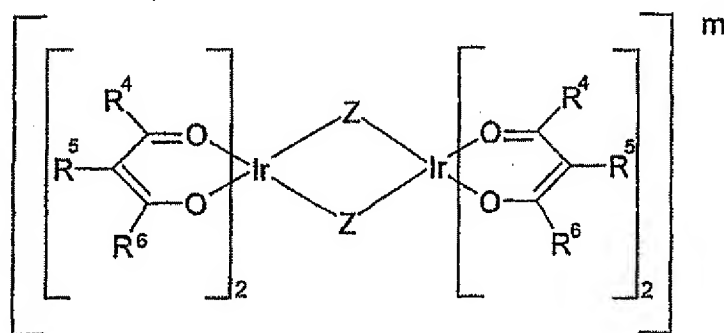
m may be from $(o+2)^+$ to $(o+2)^-$



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G , Z , n and p are each as defined above,

m is 2+, 1+, 0, 1- or 2-



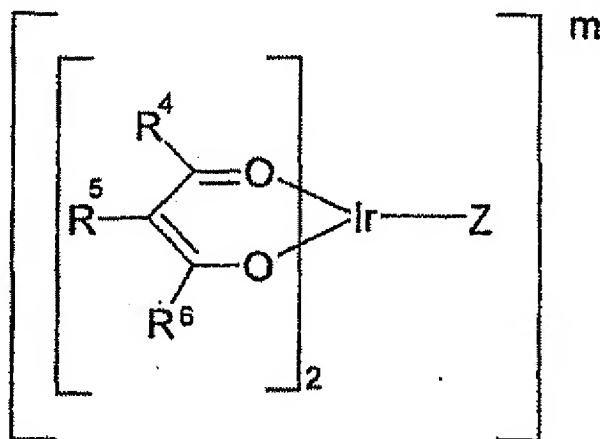
formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 , R^6 and Z are each as defined in claim 1 and in which

m is 2+, 1+, 0, 1- or 2-,

Z^1 is the same or different at each instance and is diketonate, carboxylate, picolinate, aminocarboxylate, 1-ketoalkoxides, azide, cyanate, isocyanate, thiocyanate, isothiocyanate, chloride, bromide and iodide.

12. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant is a compound of the formula (VI), (VII), (VIII) and/or (IX) and



formula (VI)

where R⁴, R⁵ and R⁶ are each as defined in claim 1 and where

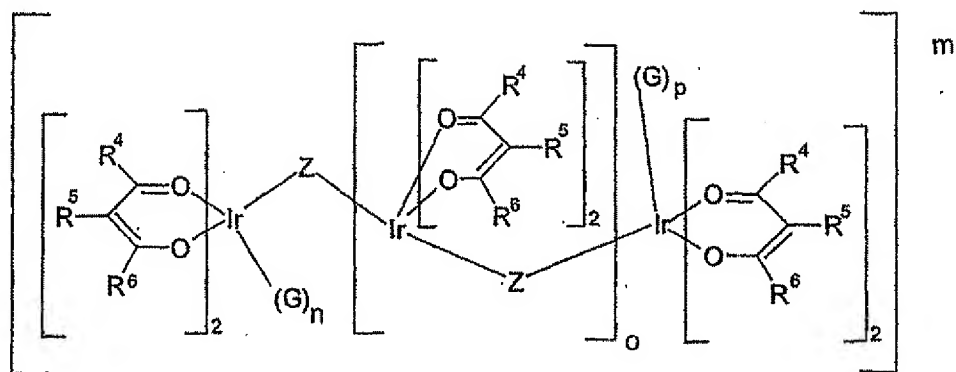
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z⁰,

a monoanionic bidentate and/or bridging ligand Z¹

or a dianionic bidentate and/or bridging ligand Z², and

m is 1+ when Z = Z⁰, is 0 when Z = Z¹ and is 1- when Z = Z²,



formula (VII)

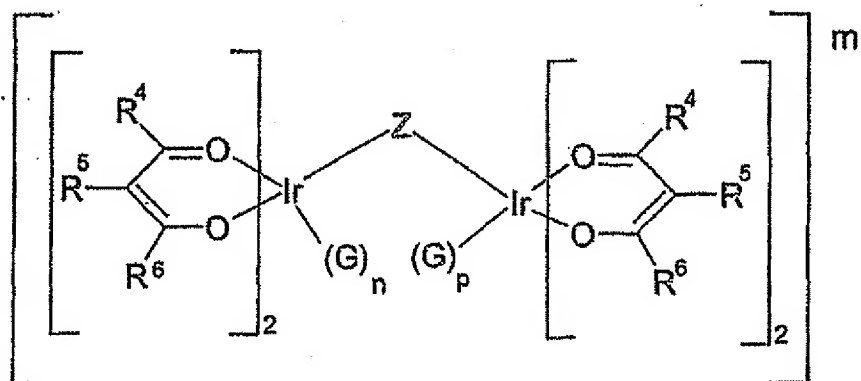
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

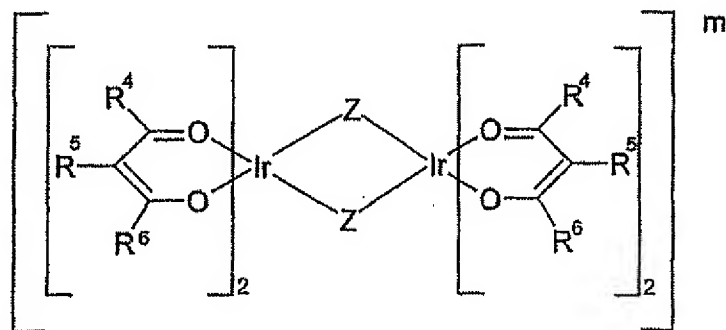
m may be from $(o+2)^+$ to $(o+2)^-$



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G, Z, n and p are each as defined above,

m is 2+, 1+, 0, 1- or 2-



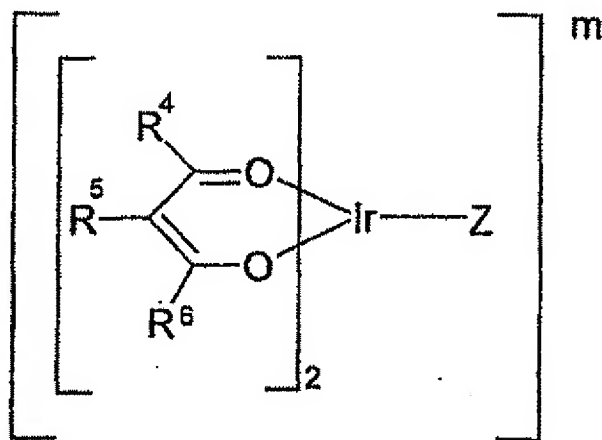
formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 , R^6 and Z are each as defined in claim 1 and in which

m is 2+, 1+, 0, 1- or 2-,

Z^1 is the same or different at each instance and is acetylacetonate or acetate.

13. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant is a compound of the formula (VI), (VII), (VIII) and/or (IX)



formula (VI)

where R^4 , R^5 and R^6 are each as defined in claim 1 and where

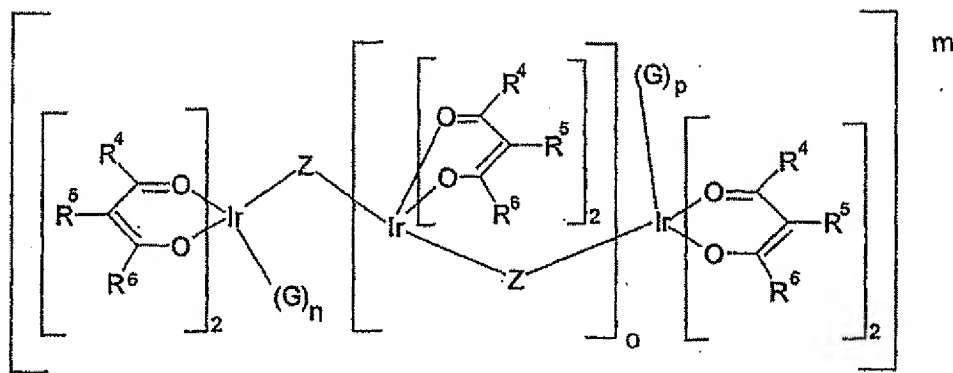
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z^0 ,

a monoanionic bidentate and/or bridging ligand Z^1

or a dianionic bidentate and/or bridging ligand Z^2 , and

m is 1+ when $Z = Z^0$, is 0 when $Z = Z^1$ and is 1- when $Z = Z^2$,



formula (VII)

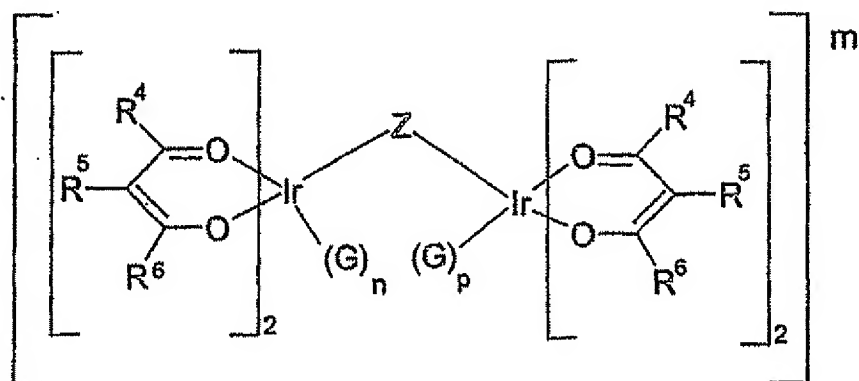
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

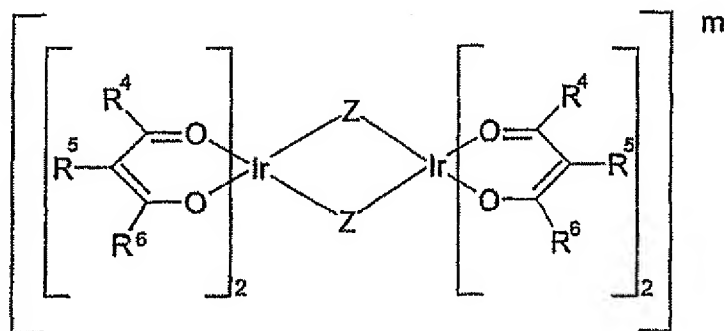
m may be from (o+2)+ to (o+2)-



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G, Z, n and p are each as defined above,

m is 2+, 1+, 0, 1- or 2-



formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 , R^6 and Z are each as defined in claim 1 and in which

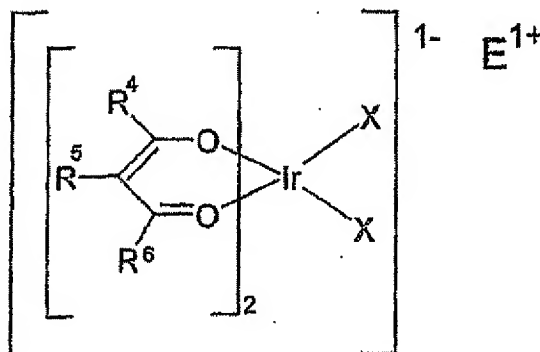
m is 2+, 1+, 0, 1- or 2-, and

Z^2 is the same or different at each instance and is oxalate, malonate, phthalate, isophthalate, terephthalate, oxide or peroxide.

14. (Previously presented) The process as claimed in claim 7, characterized in that the iridium(III)-containing reactant is a compound of the formula (X) in which Q is Cl, Br, I or a diketonate.

15. (Previously presented) The process as claimed in claim 1 ~~and/or~~ claim 2, characterized in that the iridium(III)-containing reactant is a compound of the formula (V) in which X is the same or different at each instance and is a Cl, Br or I anion.

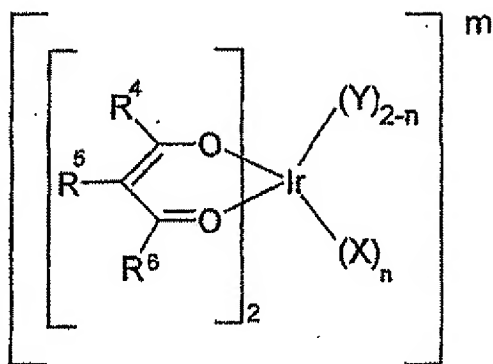
16. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant contains a compound of the formula (XI)



formula (XI)

where R^1 , R^2 , R^4 , R^5 and R^6 are each as defined in claim 1, X is the same or different at each instance and is a Cl, Br or I anion, and E is an alkali metal cation, ammonium or phosphonium ion.

17. (Previously presented) The process as claimed in claim 1, characterized in that the iridium(III)-containing reactant used contains a mixture of at least 2 iridium(III)-containing reactants of the formula (II), or (V) to (XI)



formula (V)

wherein

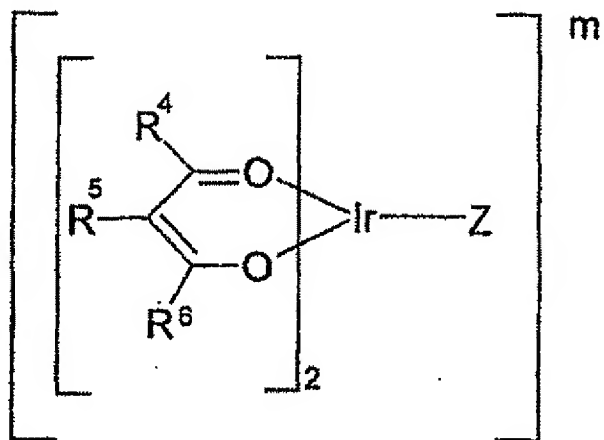
R^4 and R^6 are the same or different at each instance and are a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by $-O-$, $-S-$, $-NR^1-$, $-CONR^2-$, $-CO-O-$, $-CR^1=CR^1-$ or $-C\equiv C-$, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms or an alkoxy group OR^1 ,

R^5 is the same or different at each instance and is a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by $-O-$, $-S-$, $-NR^1-$, $-CONR^2-$, $-CO-O-$, $-CR^1=CR^1-$ or $-C\equiv C-$, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms,

Y is the same or different at each instance and is an uncharged monodentate ligand,

n is 0, 1 or 2 and

m is 1- when $n = 2$, is 0 when $n = 1$ or is 1+ when $n = 0$



formula (VI)

where R⁴, R⁵ and R⁶ are each as defined in claim 1 and where

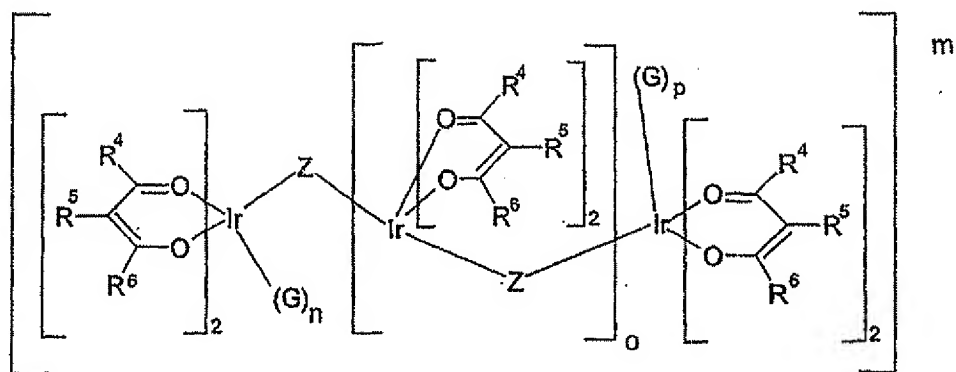
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z⁰,

a monoanionic bidentate and/or bridging ligand Z¹

or a dianionic bidentate and/or bridging ligand Z², and

m is 1+ when Z = Z⁰, is 0 when Z = Z¹ and is 1- when Z = Z²,



formula (VII)

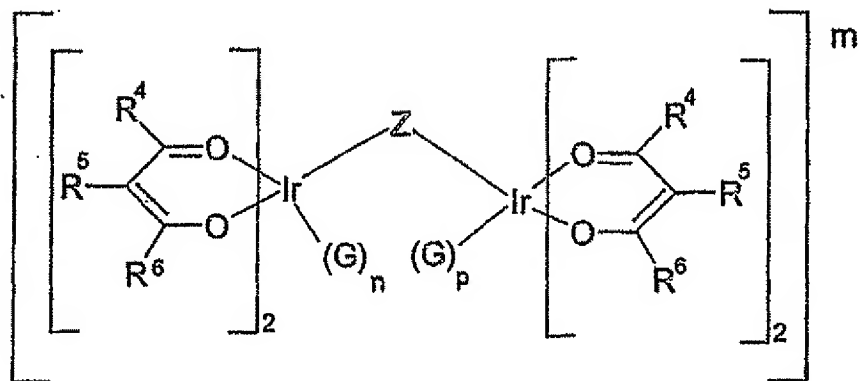
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

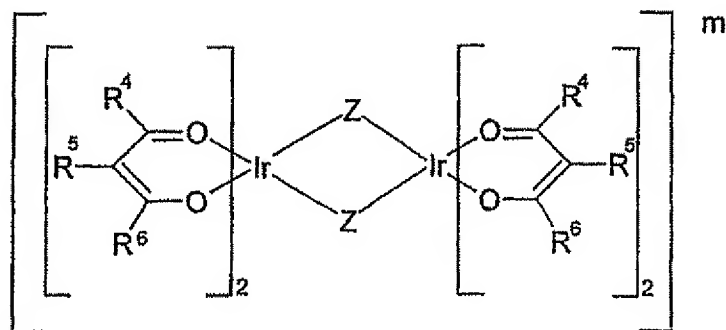
m may be from $(o+2)^+$ to $(o+2)^-$



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G, Z, n and p are each as defined above,

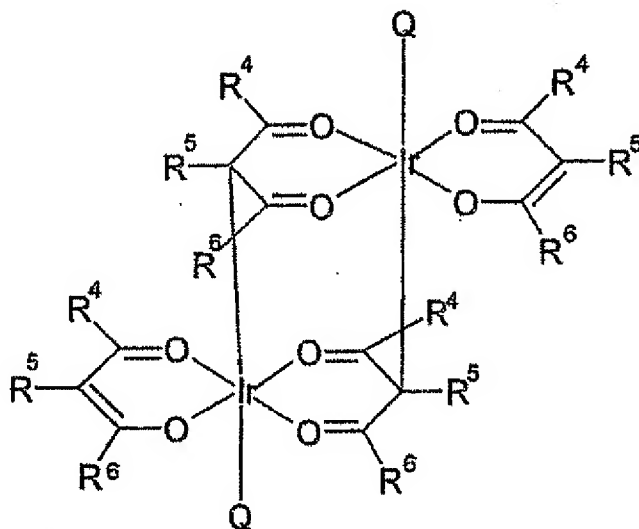
m is 2+, 1+, 0, 1- or 2-



formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 , R^6 and Z are each as defined in claim 1 and in which

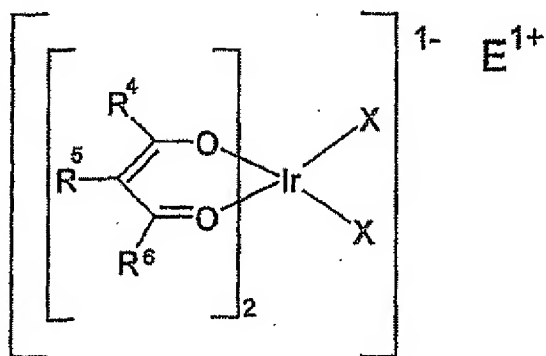
m is 2+, 1+, 0, 1- or 2-, and



formula (X)

where the symbols R^4 , R^5 and R^6 are each as defined in claim 1 and where

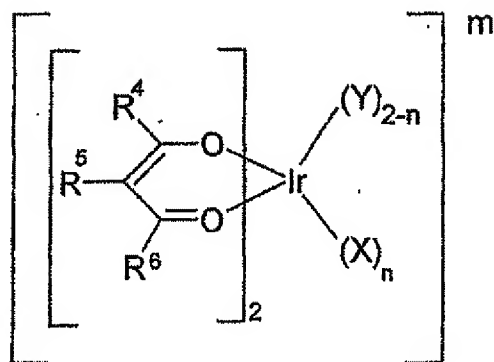
Q is the same or different at each instance and is a monovalent anion



formula (XI)

where R¹, R², R⁴, R⁵ and R⁶ are each as defined in claim 1, X is the same or different at each instance and is a Cl, Br or I anion, and E is an alkali metal cation, ammonium or phosphonium ion.

18. (Previously presented) The process as claimed in claim 1, characterized in that the reactant used is a mixture which comprises at least one iridium(III)-containing reactant of the formula (II), or (V) to (XI)



formula (V)

wherein

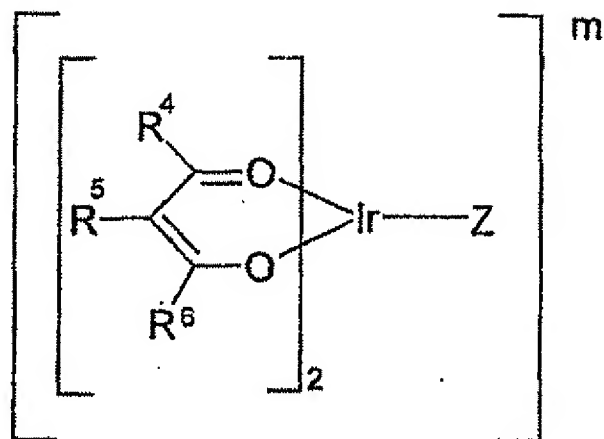
R^4 and R^6 are the same or different at each instance and are a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by -O-, -S-, $-NR^1$ -, $-CONR^2$ -, $-CO-O$ -, $-CR^1=CR^1$ - or $-C\equiv C$ -, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms or an alkoxy group OR^1 ,

R^5 is the same or different at each instance and is a linear, branched or cyclic alkyl group having 1-20 carbon atoms, in which one or more nonadjacent CH_2 groups may be replaced by -O-, -S-, $-NR^1$ -, $-CONR^2$ -, $-CO-O$ -, $-CR^1=CR^1$ - or $-C\equiv C$ -, and in which one or more hydrogen atoms may be replaced by F or aromatic groups each having from 3 to 14 carbon atoms, or an aryl and/or heteroaryl group having 3-20 carbon atoms,

Y is the same or different at each instance and is an uncharged monodentate ligand,

n is 0, 1 or 2 and

m is 1- when $n = 2$, is 0 when $n = 1$ or is 1+ when $n = 0$



formula (VI)

where R⁴, R⁵ and R⁶ are each as defined in claim 1 and where

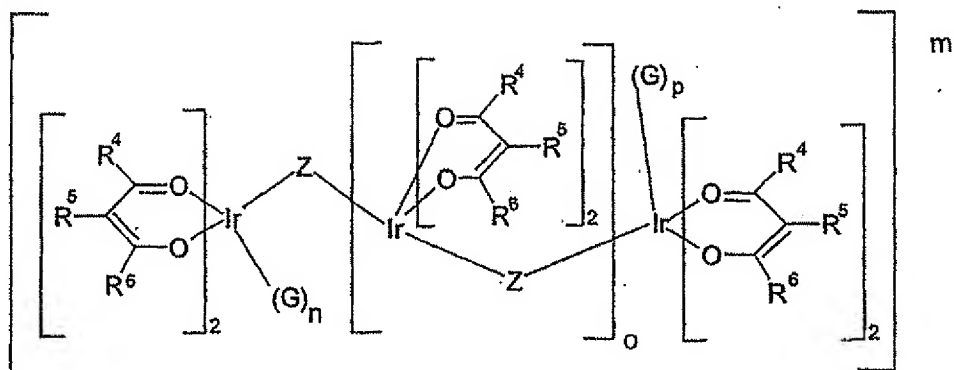
Z is the same or different at each instance and is

and uncharged bidentate and/or bridging ligand Z⁰,

a monoanionic bidentate and/or bridging ligand Z¹

or a dianionic bidentate and/or bridging ligand Z², and

m is 1+ when Z = Z⁰, is 0 when Z = Z¹ and is 1- when Z = Z²,



formula (VII)

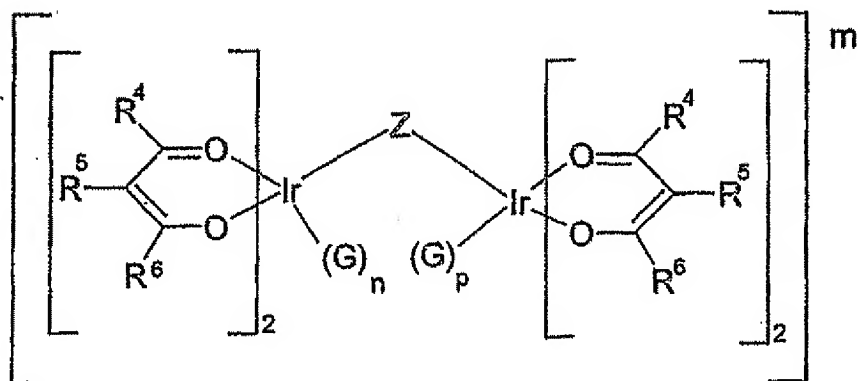
where R^4 , R^5 and R^6 are each as defined in claim 1,

G is the same or different at each instance and is either a monovalent anion X or an uncharged monodentate ligand Y ,

n and p are the same or different at each instance and are 0 or 1,

o can assume integer values from 0 to 100 000 and

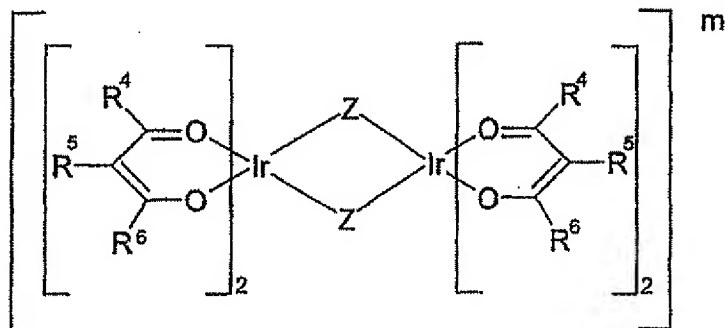
m may be from $(o+2)^+$ to $(o+2)^-$



formula (VIII)

where the symbols and indices R^4 , R^5 and R^6 , G , Z , n and p are each as defined above,

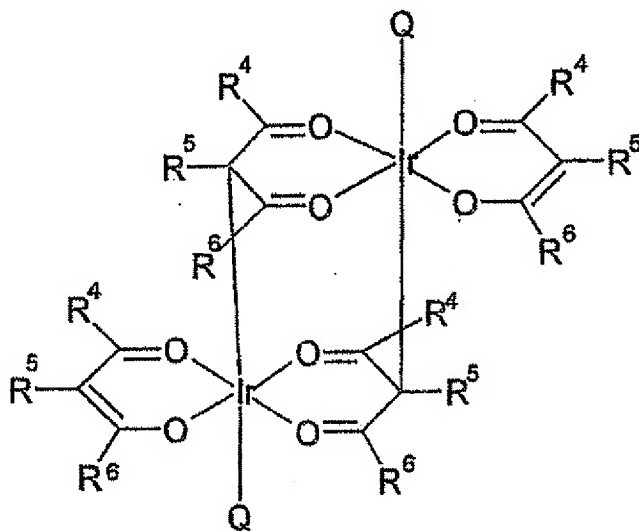
m is 2+, 1+, 0, 1- or 2-



formula (IX)

where the symbols R^1 , R^2 , R^4 , R^5 , R^6 and Z are each as defined in claim 1 and in which

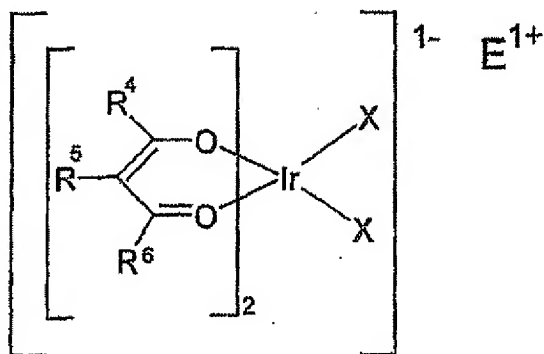
m is 2+, 1+, 0, 1- or 2-, and



formula (X)

where the symbols R^4 , R^5 and R^6 are each as defined in claim 1 and where

Q is the same or different at each instance and is a monovalent anion



formula (XI)

where R¹, R², R⁴, R⁵ and R⁶ are each as defined in claim 1, X is the same or different at each instance and is a Cl, Br or I anion, and E is an alkali metal cation, ammonium or phosphonium ion.

19. (Cancelled)

20. (Cancelled)